7. LAMPIRAN

Lampiran 1. *Worksheet* Uji Ranking Hedonik Mie Instan

Worksheet Uji Rangking Hedonik

Tanggal Uji :
Jenis sampel : Mi instan

Identifikasi sampel	**Kode**
Mi instan dengan konsentrasi tepung sukun fermentasi 0%	A
Mi instan dengan konsentrasi tepung sukun fermentasi 5%	B
Mi instan dengan konsentrasi tepung sukun fermentasi 10%	C
Mi instan dengan konsentrasi tepung sukun fermentasi 20%	D
Mi instan dengan konsentrasi tepung sukun fermentasi 40%	E

Kode kombinasi urutan penyajian

ABCDE = 1	AECBD = 11	BCDAE = 21
ABCED = 2	AEDCB = 12	BCADE= 22
ABECD = 3	BADCE = 13	BACDE = 23
AEBCD = 4	BAEDC = 14	BEDCA = 24
ACBDE = 5	BDACE = 15	CDAEB = 25
ACBED = 6	BDECA = 16	CDABE = 26
ACEBD = 7	BDCAE = 17	DABCE = 27
ADBCE = 8	BEACD = 18	DBCEA = 28
ADECB = 9	BECDA = 19	DBACE = 29
ADCEB = 10	BCDEA = 20	EABCD = 30

Rekap kode sampel

Sampel	*Kode sampel*									
A	111	112	113	114	115	116	117	118	119	211
	212	213	214	215	216	217	218	219	311	312
	313	314	315	316	317	318	319	411	412	413
B	121	122	123	124	125	126	127	128	129	221
	222	223	224	225	226	227	228	229	321	322
	323	324	325	326	327	328	329	421	422	423
C	131	132	133	134	135	136	137	138	139	231
	232	233	234	235	236	237	238	239	331	332
	333	334	335	336	337	338	339	431	432	433
D	141	142	143	144	145	146	147	148	149	241
	242	243	244	245	246	247	248	249	341	342
	343	344	345	346	347	348	349	441	442	443
E	151	152	153	154	155	156	157	158	159	251
	252	253	254	255	256	257	258	259	351	352
	353	354	355	356	357	358	359	451	452	453

Penyajian

Panelis	*Kode sampel*					*Urutan penyajian*
# 01	111	121	232	343	453	1
# 02	112	122	233	452	344	2
# 03	113	123	451	234	345	3
# 04	114	359	124	235	346	4
# 05	115	236	125	347	358	5
# 06	116	237	126	357	348	6
# 07	117	238	356	127	349	7
# 08	118	441	128	239	355	8
# 09	119	442	354	331	129	9
# 10	211	443	332	353	221	10
# 11	212	352	333	222	141	11
# 12	213	351	142	334	223	12
# 13	224	214	143	335	259	13
# 14	225	215	258	144	336	14
# 15	226	145	216	337	257	15
# 16	227	146	256	338	217	16
# 17	228	147	339	218	255	17
# 18	229	254	219	431	148	18
# 19	321	253	432	149	311	19
# 20	322	433	241	252	312	20
# 21	323	131	242	313	251	21
# 22	324	132	314	243	159	22
# 23	325	315	133	244	158	23
# 24	326	157	245	134	316	24
# 25	135	246	317	156	327	25
# 26	136	247	318	328	155	26
# 27	248	319	329	137	154	27
# 28	249	421	138	153	411	28
# 29	341	422	412	139	152	29
# 30	151	413	423	231	342	30

Lampiran 2. *Scoresheet* Uji Ranking Hedonik Mie Instan

KUISIONER UJI SENSORI MI INSTAN

Nama : Tanggal :
Produk : Mi Instan
Atribut : Warna

Instruksi

Di hadapan anda terdapat 5 sampel mi dengan formulasi yang berbeda. Amatilah warna sampel secara berurutan dari sampel sebelah kiri ke kanan. Anda diperbolehkan mengulang sesering yang anda perlukan. Kemudian berilah skor warna sampel. Skor 1 = sangat tidak suka, 2 = tidak suka, 3 = netral, 4 = suka, dan 5= sangat suka. Skor yang diberikan tidak boleh sama antar sampel.

Sampel	rangking (tidak boleh double)
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

TERIMA KASIH

KUISIONER UJI SENSORI MI INSTAN

Nama : Tanggal :
Produk : Mi Instan
Atribut : Rasa

Instruksi

Di hadapan anda terdapat 5 sampel mi dengan formulasi yang berbeda. Cobalah sampel secara berurutan dari sampel sebelah kiri ke kanan dengan cara mengunyah dengan menggunakan gigi geraham. Anda diperbolehkan mengulang sesering yang anda perlukan. Setiap kali anda akan mengunyah sampel yang berbeda, berkumurlah terlebih dahulu dengan air tawar. Kemudian berilah skor rasa sampel. Skor 1 = sangat tidak suka, 2 = tidak suka, 3 = netral, 4 = suka, dan 5= sangat suka. Skor yang diberikan boleh sama antar sampel.

Sampel	rangking (boleh double)
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

TERIMA KASIH

KUISIONER UJI SENSORI MI INSTAN

Nama : Tanggal :
Produk : Mi Instan
Atribut : Aroma

Instruksi

Di hadapan anda terdapat 5 sampel mi dengan formulasi yang berbeda. Amatilah aroma sampel secara berurutan dari sampel sebelah kiri ke kanan dengan cara membausampel tersebut. Anda diperbolehkan mengulang sesering yang anda perlukan. Kemudian berilah skor Aroma sampel. Skor 1 = sangat tidak suka, 2 = tidak suka, 3 = netral, 4 = suka, dan 5= sangat suka. Skor yang diberikan boleh sama antar sampel.

Sampel	rangking (boleh double)
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

TERIMA KASIH

KUISIONER UJI SENSORI MI INSTAN

Nama : Tanggal :
Produk : Mi Instan
Atribut : Kekenyalan

Instruksi

Di hadapan anda terdapat 5 sampel mi dengan formulasi yang berbeda. Cobalah sampel secara berurutan dari sampel sebelah kiri ke kanan dengan cara mengunyah dengan menggunakan gigi geraham. Anda diperbolehkan mengulang sesering yang anda perlukan. Setiap kali anda akan mengunyah sampel yang berbeda, berkumurlah terlebih dahulu dengan air tawar. Kemudian berilah skor kekenyalan sampel. Skor 1 = sangat tidak suka, 2 = tidak suka, 3 = netral, 4 = suka, dan 5= sangat suka. Skor yang diberikan boleh sama antar sampel.

Sampel	rangking (boleh double)
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

TERIMA KASIH

KUISIONER UJI SENSORI MI INSTAN

Nama : Tanggal :

Produk : Mi Instan

Atribut : *Overall*

Instruksi

Di hadapan anda terdapat 5 sampel mi dengan formulasi yang berbeda. Cobalah sampel secara berurutan dari sampel sebelah kiri ke kanan dengan cara mengunyah dengan menggunakan gigi geraham. Anda diperbolehkan mengulang sesering yang anda perlukan. Setiap kali anda akan mengunyah sampel yang berbeda, berkumurlah terlebih dahulu dengan air tawar. Kemudian berilah skor *overall* sampel. Skor 1 = sangat tidak suka, 2 = tidak suka, 3 = netral, 4 = suka, dan 5= sangat suka. Skor yang diberikan boleh sama antar sampel.

Sampel	rangking (boleh double)
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

TERIMA KASIH

Lampiran 3. Standart Mutu Mie Instan

No.	Kriteria Uji	Satuan	Persyaratan
1	Keadaan [2)]		
1.1	Tekstur	-	Normal / dapat diterima
1.2	Aroma	-	Normal / dapat diterima
1.3	Rasa	-	Normal / dapat diterima
1.4	Warna	-	Normal / dapat diterima
2	Benda asing [2)]	-	Normal / dapat diterima
3	Keutuhan	% b/b	Min. 90
4	Kadar air[1)]		
4.1	Proses penggorengan	% b/b	Maks. 10,0
4.2	Proses penggeringan	% b/b	Maks. 14,5
5	Kadar protein[2)]		
5.1	Mie dari terigu	% b/b	Min 8,0
5.2	Mie dari bukan terigu	% b/b	Min. 4,0
6	Bilangan asam[1)]	mg KOH/g minyak	Maks. 2
7	Cemaran logam[2)]		
7.1	Timbal (Pb)	mg/kg	Maks. 2,0
7.2	Raksa (Hg)	mg/kg	Maks 0,05
8	Arsen (As)[2)]	mg/kg	Maks. 0,5
9	Cemaran mikroba [2)]		
9.1	Angka lempeng total	Koloni/g	Maks $1,0 \times 10^6$
9.2	E. coli	APM/G	<3
9.3	Salmonela	-	Negatif per 25 g
9.4	Kapang	Koloni/g	Maks. $1,0 \times 10^3$

1) Berlaku untuk keping mie
2) Berlaku untuk keping mie dan bumbunya

(BSN, 2000)

Lampiran 4. Proses Pembuatan Tepung Sukun Fermentasi

Gambar 8. Bahan dan alat yang digunakan dalam proses pembuatan tepung sukun fermentasi: (a) Bahan Baku Buah Sukun, (b) Buah sukun setelah proses pengupasan, (c) Alat pengiris sukun, (d) Buah sukun setelah diiris tipis dengan ketebalan ± 2mm, (e) Irisan tipis buah sukun direndam dalam media selama proses fermentasi, (f) Setelah fermentasi dilanjutkan proses pengeringan dengan menggunakan *dehumidifier*, (g) Irisan sukun setelah proses pengeringan, (h) Alat penggiling untuk menghaluskan irisan sukun setelah proses pengeringan, (i) Proses Pengayakan dengan ukuran 80 mesh.

Lampiran 5. Proses Pembuatan Mie Instan Tepung Sukun

Gambar 9. Proses pembuatan mie instan sukun : (a) Bahan baku mie tepung sukun, (b) Proses pengadukan, (c) Proses pengistirahatan, (d) Pemipihan adonan, (e) Pembentukan adonan menjadi lembaran, (f) Pemotongan adonan menjadi untaian mie, (g) Pencetakan untaian mie instan, (h) Pengukusan mie instan, (i) Pengeringan Mie Instan.

(a)

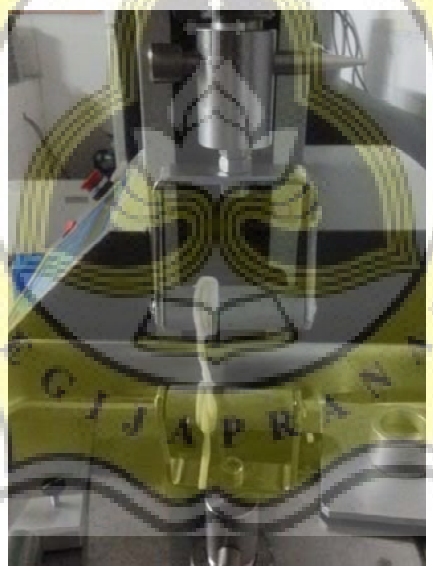
(b)

(c)

Gambar 10. Adonan mie instan sebelum proses pengukusan (a), Mie instan setelah proses pengukusan (b), Mie instan setelah proses perebusan (c).

Lampiran 6. Analisa Mie Instan

Gambar 11. Analisa Kekerasan Menggunakan *Texture Analyzer*



Gambar 12. Analisa *Tensile Strength* Menggunakan *Texture Analyzer*

Lampiran 7. Analisa SPSS

- Kadar Air Tepung Sukun Fermentasi

kadar_air

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
terigu1	3	9,900000		
terigu2	3	9,900000		
aquades+l.plan2	3	10,086667	10,086667	
aquades+l.plan1	3		10,286667	10,286667
degan+l.plan 1	3		10,310000	10,310000
degan+ragi1	3		10,326667	10,326667
degan+ragi2	3		10,333333	10,333333
degan+l.plan2	3			10,493333
aquades+ragi1	3			10,513333
aquades+ragi2	3			10,633333
Sig.		,265	,165	,061

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Tests of Normality

	perlakuan	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
kadar_air	degan + l.plantarum	,172	6	,200*	,981	6	,957
	aquades + l.plantarum	,178	6	,200*	,971	6	,900
	degan + ragi	,296	6	,108	,836	6	,122
	aquades + ragi	,240	6	,200*	,894	6	,337
	terigu	,311	6	,072	,783	6	,041

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Descriptives

kadar_air

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
degan + l.plantarum	6	10,40167	,130179	,053146	10,26505	10,53828	10,205	10,580
aquades + l.plantarum	6	10,18667	,133666	,054569	10,04639	10,32694	10,000	10,380
degan + ragi	6	10,33000	,060332	,024631	10,26669	10,39331	10,240	10,380
aquades + ragi	6	10,57333	,238886	,097525	10,32264	10,82403	10,320	10,900
terigu	6	9,90000	,270703	,110514	9,61591	10,18409	9,560	10,140
Total	30	10,27833	,286637	,052333	10,17130	10,38537	9,560	10,900

kadar_air

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
terigu	6	9,90000		
aquades + l.plantarum	6		10,18667	
degan + ragi	6		10,33000	
degan + l.plantarum	6		10,40167	10,40167
aquades + ragi	6			10,57333
Sig.		1,000	,065	,118

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

- Kadar Serat Tepung Sukun Fermentasi

Duncan

perlakuan	N	Subset for alpha = .05					
		1	2	3	4	5	6
terigu1	3	2,428371					
terigu2	3	2,428371					
degan+ragi1	3		5,173008				
degan+l.plan 1	3			7,018188			
aquades+l.plan1	3			7,422031	7,422031		
aquades+ragi2	3			7,759758	7,759758		
degan+ragi2	3				7,860003		
aquades+ragi1	3				7,872081		
degan+l.plan2	3					9,538876	
aquades+l.plan2	3						13,193218
Sig.		1,000	1,000	,051	,240	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 3,000.

Tests of Normality

	Kolmogorov-Smirnov(a)			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
serat	,230	15	,031	,825	15	,008

a Lilliefors Significance Correction

Descriptives

serat

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
degan+l.plantarum	3	7,018188	,3739582	,2159049	6,089224	7,947152	6,6765	7,4177
aquades+l.plantarum	3	7,422031	,2742896	,1583612	6,740658	8,103404	7,1881	7,7239
degan+ragi	3	5,173008	,3320930	,1917340	4,348043	5,997973	4,8409	5,5051
aquades+ragi	3	7,872081	,2550203	,1472360	7,238576	8,505587	7,6148	8,1248
terigu	3	2,428371	,0590745	,0341067	2,281622	2,575120	2,3699	2,4880
Total	15	5,982736	2,0838728	,5380537	4,828726	7,136746	2,3699	8,1248

serat

Duncan

perlakuan	N	Subset for alpha = .05			
		1	2	3	4
terigu	3	2,428371			
degan+ragi	3		5,173008		
degan+l.plantarum	3			7,018188	
aquades+l.plantarum	3			7,422031	7,422031
aquades+ragi	3				7,872081
Sig.		1,000	1,000	,109	,078

Means for groups in homogeneous subsets are displayed.
a Uses Harmonic Mean Sample Size = 3,000.

- Kadar Protein Tepung Sukun Fermentasi

protein

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
aquades+l.plan2	3	3,843700		
aquades+l.plan1	3	3,881000		
aquades+ragi1	3	3,939333		
aquades+ragi2	3	3,968667		
degan+l.plan2	3	4,143667		
degan+l.plan 1	3	4,260667		
degan+ragi1	3		5,340167	
degan+ragi2	3		5,369667	
terigu1	3			13,936181
terigu2	3			13,936181
Sig.		,133	,902	1,000

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 3,000.

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
protein	degan + l.plantarum	,261	6	,200*	,870	6	,225
	aquades + l.plantarum	,227	6	,200*	,894	6	,340
	degan + ragi	,193	6	,200*	,886	6	,299
	aquades + ragi	,168	6	,200*	,979	6	,944
	terigu	,266	6	,200*	,821	6	,090

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Descriptives

protein

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
degan + l.plantarum	6	4,17202	,164150	,067014	3,99975	4,34428	4,021	4,465
aquades + l.plantarum	6	3,89570	,286363	,116907	3,59518	4,19622	3,589	4,290
degan + ragi	6	5,35476	,202783	,082786	5,14195	5,56757	5,165	5,690
aquades + ragi	6	4,08530	,269405	,109984	3,80257	4,36802	3,677	4,465
terigu	6	13,93618	,416132	,169885	13,49948	14,37289	13,532	14,445
Total	30	6,28879	3,932566	,717985	4,82035	7,75723	3,589	14,445

protein

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
aquades + l.plantarum	6	3,89570		
aquades + ragi	6	4,08530		
degan + l.plantarum	6	4,17202		
degan + ragi	6		5,35476	
terigu	6			13,93618
Sig.		,119	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

- *Wettability* Tepung Sukun Fermentasi

wettability

Duncan[a]

perlakuan	N	Subset for alpha = .05					
		1	2	3	4	5	6
degan+ragi1	3	26,333333					
degan+ragi2	3		74,000000				
degan+l.plan 1	3			97,666667			
degan+l.plan2	3			110,6667	110,6667		
aquades+ragi2	3			120,6667	120,6667		
aquades+l.plan2	3				123,3333		
aquades+ragi1	3				134,0000		
aquades+l.plan1	3					267,0000	
terigu1	3						1403,000
terigu2	3						1403,000
Sig.		1,000	1,000	,060	,064	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Descriptives

wettability

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
degan+l.plan	3	110,6667	9,07377	5,23874	88,1262	133,2072	104,00	121,00
aquades+l.plan	3	123,3333	2,51661	1,45297	117,0817	129,5849	121,00	126,00
degan+ragi	3	74,0000	3,46410	2,00000	65,3947	82,6053	72,00	78,00
aquades+ragi	3	121,3333	5,03322	2,90593	108,8301	133,8366	116,00	126,00
terigu	3	1403,0000	24,00000	13,85641	1343,3807	1462,6193	1379,00	1427,00
Total	15	366,4667	536,86469	138,61787	69,1609	663,7724	72,00	1427,00

wettability

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
degan+ragi	3	74,0000		
degan+l.plan	3		110,6667	
aquades+ragi	3		121,3333	
aquades+l.plan	3		123,3333	
terigu	3			1403,0000
Sig.		1,000	,240	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

- *Dispersibility* Tepung Sukun Fermentasi

dispersibility

Duncan[a]

perlakuan	N	Subset for alpha = .05			
		1	2	3	4
aquades+l.plan1	3	1,454667			
degan+l.plan 1	3	1,489667			
aquades+ragi1	3	1,549000			
degan+ragi2	3		1,723000		
terigu1	3		1,799000		
terigu2	3		1,799000		
degan+l.plan2	3		1,840000	1,840000	
degan+ragi1	3			1,964000	
aquades+ragi2	3			1,971000	
aquades+l.plan2	3				2,216667
Sig.		,178	,108	,066	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
dispersibility	,173	15	,200*	,947	15	,472

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Descriptives

dispersibility

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
air kelapa+l.plantaru	3	1,8400	,11175	,06452	1,5624	2,1176	1,71	1,91
aquades+l.plantarur	3	2,2167	,15213	,08783	1,8387	2,5946	2,06	2,37
air kelapa+ragi	3	1,7230	,10329	,05963	1,4664	1,9796	1,61	1,81
aquades+ragi	3	1,9710	,07200	,04157	1,7921	2,1499	1,90	2,04
terigu	3	1,7990	,05604	,03236	1,6598	1,9382	1,74	1,85
Total	15	1,9099	,19984	,05160	1,7993	2,0206	1,61	2,37

dispersibility

Duncan [a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
air kelapa+ragi	3	1,7230		
terigu	3	1,7990	1,7990	
air kelapa+l.plantarum	3	1,8400	1,8400	
aquades+ragi	3		1,9710	
aquades+l.plantarum	3			2,2167
Sig.		,220	,083	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

- Densitas Kamba Tepung Sukun Fermentasi

densitas_kamba

Duncan [a]

perlakuan	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
degan+ragi2	3	,250000						
degan+l.plan2	3		,270000					
aquades+ragi2	3			,300000				
aquades+l.plan2	3			,306667				
degan+ragi1	3				,317767			
degan+l.plan 1	3					,332500		
aquades+ragi1	3					,339233		
aquades+l.plan1	3						,348233	
terigu1	3							,448667
terigu2	3							,448667
Sig.		1,000	1,000	,119	1,000	,115	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Descriptives

densitas_kamba

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
degan+lplantarum	3	,332500	,0091110	,0052602	,309867	,355133	,3249	,3426
aquades+l.plantarum	3	,348233	,0039247	,0022659	,338484	,357983	,3450	,3526
degan+ragi	3	,317767	,0086939	,0050194	,296170	,339363	,3111	,3276
aquades+ragi	3	,339233	,0049662	,0028672	,326897	,351570	,3335	,3422
terigu	3	,448667	,0030551	,0017638	,441078	,456256	,4460	,4520
Total	15	,357280	,0487114	,0125772	,330305	,384255	,3111	,4520

densitas_kamba

Duncan[a]

perlakuan	N	Subset for alpha = .05			
		1	2	3	4
degan+ragi	3	,317767			
degan+lplantarum	3		,332500		
aquades+ragi	3		,339233	,339233	
aquades+l.plantarum	3			,348233	
terigu	3				,448667
Sig.		1,000	,230	,118	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

- Warna Tepung Sukun Fermentasi

warna

Duncan [a]

perlakuan	N	Subset for alpha = .05				
		1	2	3	4	5
aquades+ragi2	3	92,826667				
aquades+l.plan2	3	92,853333				
degan+l.plan2	3		93,210000			
aquades+ragi1	3		93,273333			
degan+ragi2	3			94,076667		
terigu1	3				94,560000	
terigu2	3				94,560000	
aquades+l.plan1	3				94,690000	
degan+l.plan 1	3					95,080000
degan+ragi1	3					95,143333
Sig.		,755	,461	1,000	,159	,461

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
warna	,210	15	,073	,855	15	,020

a. Lilliefors Significance Correction

Descriptives

warna

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
degan+l.plan	3	93,2433	,07024	,04055	93,0689	93,4178	93,17	93,31
aquades+l.plan	3	92,8533	,09866	,05696	92,6083	93,0984	92,74	92,92
degan+ragi	3	94,0767	,03512	,02028	93,9894	94,1639	94,04	94,11
aquaes+ragi	3	92,8267	,19348	,11170	92,3460	93,3073	92,71	93,05
terigu	3	94,5600	,01000	,00577	94,5352	94,5848	94,55	94,57
Total	15	93,5120	,72138	,18626	93,1125	93,9115	92,71	94,57

warna

Duncan[a]

perlakuan	N	Subset for alpha = .05			
		1	2	3	4
aquaes+ragi	3	92,8267			
aquades+l.plan	3	92,8533			
degan+l.plan	3		93,2433		
degan+ragi	3			94,0767	
terigu	3				94,5600
Sig.		,759	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
a	,322	15	,000	,756	15	,001
b	,216	15	,058	,875	15	,040

a. Lilliefors Significance Correction

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
a	degan+l.plan	3	,8433	,04163	,02404	,7399	,9468	,81	,89
	aquades+l.plan	3	1,1367	,01528	,00882	1,0987	1,1746	1,12	1,15
	degan+ragi	3	,7833	,02517	,01453	,7208	,8458	,76	,81
	aquades+ragi	3	1,2933	,01155	,00667	1,2646	1,3220	1,28	1,30
	terigu	3	-,4267	,01528	,00882	-,4646	-,3887	-,44	-,41
	Total	15	,7260	,62761	,16205	,3784	1,0736	-,44	1,30
b	degan+l.plan	3	7,7567	,07095	,04096	7,5804	7,9329	7,68	7,82
	aquades+l.plan	3	6,9700	,06000	,03464	6,8210	7,1190	6,91	7,03
	degan+ragi	3	6,6800	,04583	,02646	6,5662	6,7938	6,63	6,72
	aquades+ragi	3	6,1867	,04041	,02333	6,0863	6,2871	6,15	6,23
	terigu	3	9,1300	,14526	,08386	8,7692	9,4908	8,99	9,28
	Total	15	7,3447	1,06596	,27523	6,7544	7,9350	6,15	9,28

a

Duncan [a]

perlakuan	N	Subset for alpha = .05				
		1	2	3	4	5
terigu	3	-,4267				
degan+ragi	3		,7833			
degan+l.plan	3			,8433		
aquades+l.plan	3				1,1367	
aquades+ragi	3					1,2933
Sig.		1,000	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

b

Duncan[a]

perlakuan	N	Subset for alpha = .05				
		1	2	3	4	5
aquades+ragi	3	6,1867				
degan+ragi	3		6,6800			
aquades+l.plan	3			6,9700		
degan+l.plan	3				7,7567	
terigu	3					9,1300
Sig.		1,000	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

- Kadar Air Mie Instan Tepung Sukun Fermentasi

kadar_air

Duncan[a]

perlakuan	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
kontrol_2	3	8,113333						
10%_1	3	8,306667	8,306667					
5%_2	3		8,466667	8,466667				
10_2	3			8,580000				
20_1	3			8,733333	8,733333			
kontrol_1	3				8,906667			
5%_1	3				8,926667			
20%□_2	3					9,640000		
40%□_2	3						9,946667	
40%_1	3							10,300000
Sig.		,132	,209	,053	,152	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
kadar_air	,160	15	,200*	,898	15	,088

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Descriptives

kadar_air

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1,00	3	8,1133	,04163	,02404	8,0099	8,2168	8,08	8,16
2,00	3	8,4667	,04163	,02404	8,3632	8,5701	8,42	8,50
3,00	3	8,5800	,15620	,09018	8,1920	8,9680	8,48	8,76
4,00	3	9,6400	,10392	,06000	9,3818	9,8982	9,52	9,70
5,00	3	9,9467	,01155	,00667	9,9180	9,9754	9,94	9,96
Total	15	8,9493	,74150	,19145	8,5387	9,3600	8,08	9,96

kadar_air

Duncan[a]

perlakuan	N	Subset for alpha = .05			
		1	2	3	4
1,00	3	8,1133			
2,00	3		8,4667		
3,00	3		8,5800		
4,00	3			9,6400	
5,00	3				9,9467
Sig.		1,000	,146	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

- Kadar Serat Mie Instan Tepung Sukun Fermentasi

serat

Duncan [a]

perlakuan	N	Subset for alpha = .05			
		1	2	3	4
kontrol_1	3	1,230000			
kontrol_2	3	1,285000			
5%_2	3	1,546667	1,546667		
5%_1	3	1,650000	1,650000		
10%_1	3		2,010267	2,010267	
10_2	3		2,083333	2,083333	
20_1	3			2,226667	
20%□_2	3			2,253333	
40%□_2	3				3,540000
40%_1	3				3,838600
Sig.		,127	,054	,371	,233

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Tests of Normality

	perlakuan	Kolmogorov-Smirnov [a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
serat	kontrol	,268	6	,200*	,867	6	,215
	5%	,198	6	,200*	,875	6	,247
	10%	,179	6	,200*	,940	6	,663
	20%	,215	6	,200*	,891	6	,326
	40%	,299	6	,102	,739	6	,015

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Descriptives

serat

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	6	1,257505	,0659114	,0269082	1,188335	1,326674	1,1856	1,3788
5%	6	1,596911	,1282118	,0523422	1,462361	1,731461	1,4545	1,7400
10%	6	2,112861	,3568070	,1456658	1,738415	2,487307	1,7256	2,6708
20%	6	2,240951	,2471615	,1009032	1,981571	2,500331	1,8331	2,4651
40%	6	3,688618	,4905297	,2002579	3,173838	4,203397	2,7291	4,0257
Total	30	2,179369	,8924945	,1629464	1,846106	2,512632	1,1856	4,0257

serat

Duncan [a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
kontrol	6	1,257505		
5%	6	1,596911		
10%	6		2,112861	
20%	6		2,240951	
40%	6			3,688618
Sig.		,061	,466	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

- Kadar Protein Mie Instan Tepung Sukun Fermentasi

protein

Duncan

perlakuan	N	Subset for alpha = .05					
		1	2	3	4	5	6
40%_1	3	7,6646					
20_1	3		8,9953				
10%_1	3		9,5276	9,5276			
40%__2	3		9,5542	9,5542			
20%__2	3			9,6872			
5%_1	3			10,1663			
10_2	3				10,9115		
kontrol_1	3				11,3107		
5%_2	3					12,9607	
kontrol_2	3						13,8921
Sig.		1,000	,088	,060	,193	1,000	1,000

Means for groups in homogeneous subsets are displayed.
a Uses Harmonic Mean Sample Size = 3,000.

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
protein	,110	15	,200*	,954	15	,583

*. This is a lower bound of the true significance.
a. Lilliefors Significance Correction

Descriptives

protein

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	3	11,310653	,0921912	,0532266	11,081637	11,539668	11,2574	11,4171
5%	3	10,166281	,1219575	,0704122	9,863321	10,469240	10,0598	10,2993
10%	3	9,527561	,5132987	,2963532	8,252457	10,802666	8,9421	9,9001
20%	3	8,995295	,3226691	,1862931	8,193741	9,796850	8,6227	9,1816
40%	3	7,664630	,4224730	,2439149	6,615149	8,714112	7,3453	8,1437
Total	15	9,532884	1,2862474	,3321077	8,820584	10,245184	7,3453	11,4171

protein

Duncan[a]

perlakuan	N	Subset for alpha = .05			
		1	2	3	4
40%	3	7,664630			
20%	3		8,995295		
10%	3		9,527561		
5%	3			10,166281	
kontrol	3				11,310653
Sig.		1,000	,082	1,000	1,000

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 3,000.

- *Cooking Loss* Mie Instan Tepung Sukun Fermentasi

cooking_loss

Duncan [a]

perlakuan	N	Subset for alpha = .05					
		1	2	3	4	5	6
kontrol_2	3	4,134134					
5%_2	3	4,464464	4,464464				
10_2	3		4,534535	4,534535			
20%□_2	3			4,854855	4,854855		
kontrol_1	3				5,038233		
40%□_2	3				5,115115		
5%_1	3					6,229533	
10%_1	3					6,246233	
20_1	3					6,299567	
40%_1	3						6,873433
Sig.		,052	,666	,059	,138	,684	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
cooking_loss	,219	15	,052	,894	15	,076

a. Lilliefors Significance Correction

Descriptives

cooking_loss

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	3	5,038238	,1990022	,1148940	4,543889	5,532587	4,8144	5,1952
5%	3	6,229530	,3046822	,1759083	5,472657	6,986402	6,0060	6,5766
10%	3	6,246246	,0900901	,0520135	6,022450	6,470042	6,1562	6,3363
20%	3	6,299600	,0503362	,0290616	6,174557	6,424642	6,2462	6,3462
40%	3	6,873473	,1421234	,0820550	6,520419	7,226528	6,7465	7,0270
Total	15	6,137417	,6389936	,1649874	5,783555	6,491280	4,8144	7,0270

cooking_loss

Duncan [a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
kontrol	3	5,038238		
5%	3		6,229530	
10%	3		6,246246	
20%	3		6,299600	
40%	3			6,873473
Sig.		1,000	,660	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

- Kekerasan Mie Instan Tepung Sukun Fermentasi

hardness

Duncan [a]

perlakuan	N	Subset for alpha = .05						
		1	2	3	4	5	6	7
5%_1	3	157,2214						
kontrol_2	3		235,5415					
5%_2	3			246,3150				
10%_1	3			246,9943				
10_2	3				268,1493			
kontrol_1	3					280,2992		
40%_1	3					284,7514		
20%□_2	3						312,3221	
20_1	3							349,3337
40%□_2	3							349,6028
Sig.		1,000	1,000	,881	1,000	,334	1,000	,953

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Tests of Normality

	Kolmogorov-Smirnov(a)			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
hardness	,202	15	,099	,870	15	,034

a Lilliefors Significance Correction

Descriptives

hardness

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	3	235,5415	2,9582449	1,7079435	228,192797	242,890172	232,1259	237,2906
5%	3	246,3150	6,6750000	3,8538130	229,733381	262,896619	239,6400	252,9900
10%	3	268,1493	3,3381234	1,9272664	259,856936	276,441652	264,4209	270,8604
20%	3	312,3221	7,9350518	4,5813043	292,610382	332,033905	303,1897	317,5321
40%	3	349,6028	1,9342460	1,1167374	344,797916	354,407783	348,0955	351,7838
Total	15	282,3862	44,4005900	11,46418	257,797927	306,974381	232,1259	351,7838

hardness

Duncan

perlakuan	N	Subset for alpha = .05				
		1	2	3	4	5
kontrol	3	235,541485				
5%	3		246,315000			
10%	3			268,149294		
20%	3				312,322143	
40%	3					349,602850
Sig.		1,000	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

- *Tensile Strength* Mie Instan Tepung Sukun Fermentasi

tensile

Duncan [a]

perlakuan	N	Subset for alpha = .05				
		1	2	3	4	5
40%□_2	3	,05375709				
20%□_2	3	,05612684	,05612684			
40%_1	3	,05669589	,05669589			
10_2	3	,05713017	,05713017	,05713017		
5%_2	3		,05812062	,05812062		
20_1	3			,06057099	,06057099	
kontrol_2	3				,06207601	
10%_1	3				,06339043	
5%_1	3					,06753070
kontrol_1	3					,07065527
Sig.		,071	,277	,059	,117	,070

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Tests of Normality

	Kolmogorov-Smirnov [a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
tensile	,112	15	,200*	,981	15	,975

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Descriptives

tensile

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	3	,0706553	,00222576	,00128504	,0651262	,0761844	,06892	,07316
5%	3	,0675307	,00105647	,00060995	,0649063	,0701551	,06675	,06873
10%	3	,0633904	,00116191	,00067083	,0605041	,0662768	,06215	,06445
20%	3	,0605710	,00047169	,00027233	,0593992	,0617427	,06005	,06097
40%	3	,0566959	,00308402	,00178056	,0490348	,0643570	,05314	,05866
Total	15	,0637687	,00534669	,00138051	,0608078	,0667296	,05314	,07316

tensile

Duncan [a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
40%	3	,0566959		
20%	3		,0605710	
10%	3		,0633904	
5%	3			,0675307
kontrol	3			,0706553
Sig.		1,000	,092	,066

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

- Warna Mie Instan Tepung Sukun Fermentasi

warna

Duncan[a]

perlakuan	N	Subset for alpha = .05								
		1	2	3	4	5	6	7	8	9
40%□_2	3	48,9433								
40%_1	3		50,0600							
20%□_2	3			54,6833						
20_1	3				56,5500					
10%_1	3					58,4800				
10_2	3						60,1133			
5%_1	3						60,4967			
5%_2	3							62,4167		
kontrol_1	3								63,1567	
kontrol_2	3									64,7767
Sig.		1,000	1,000	1,000	1,000	1,000	,213	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Tests of Normality

	Kolmogorov-Smirnov(a)			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
warna	,165	15	,200(*)	,882	15	,050

* This is a lower bound of the true significance.

a Lilliefors Significance Correction

Descriptives

warna

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	3	63,15667	,142945	,082529	62,80157	63,51176	63,000	63,280
5%	3	60,49667	,430039	,248283	59,42839	61,56494	60,130	60,970
10%	3	58,48000	,504083	,291033	57,22779	59,73221	57,930	58,920
20%	3	56,55000	,331512	,191398	55,72648	57,37352	56,170	56,780
40%	3	50,06000	,026458	,015275	49,99428	50,12572	50,040	50,090
Total	15	57,74867	4,588773	1,184816	55,20749	60,28984	50,040	63,280

warna

Duncan [a]

perlakuan	N	Subset for alpha = .05				
		1	2	3	4	5
40%	3	50,06000				
20%	3		56,55000			
10%	3			58,48000		
5%	3				60,49667	
kontrol	3					63,15667
Sig.		1,000	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Tests of Normality

	Kolmogorov-Smirnov [a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
a	,151	15	,200*	,928	15	,255
b	,201	15	,106	,910	15	,136

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
a	kontrol	3	-,4800	,02646	,01528	-,5457	-,4143	-,50	-,45
	5%	3	,2733	,02517	,01453	,2108	,3358	,25	,30
	10%	3	,4933	,04041	,02333	,3929	,5937	,45	,53
	20%	3	,9733	,08963	,05175	,7507	1,1960	,87	1,03
	40%	3	1,9200	,18735	,10817	1,4546	2,3854	1,71	2,07
	Total	15	,6360	,82685	,21349	,1781	1,0939	-,50	2,07
b	kontrol	3	15,7600	,31432	,18148	14,9792	16,5408	15,40	15,98
	5%	3	14,7867	,09074	,05239	14,5613	15,0121	14,69	14,87
	10%	3	13,6867	,97429	,56250	11,2664	16,1069	12,99	14,80
	20%	3	12,6167	,51384	,29667	11,3402	13,8931	12,32	13,21
	40%	3	9,9833	,53678	,30991	8,6499	11,3168	9,57	10,59
	Total	15	13,3667	2,11771	,54679	12,1939	14,5394	9,57	15,98

a

Duncan [a]

perlakuan	N	Subset for alpha = .05				
		1	2	3	4	5
kontrol	3	-,4800				
5%	3		,2733			
10%	3			,4933		
20%	3				,9733	
40%	3					1,9200
Sig.		1,000	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

b

Duncan [a]

perlakuan	N	Subset for alpha = .05			
		1	2	3	4
40%	3	9,9833			
20%	3		12,6167		
10%	3			13,6867	
5%	3				14,7867
kontrol	3				15,7600
Sig.		1,000	1,000	1,000	,062

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

- *Cooking Time* Mie Instan Tepung Sukun Fermentasi

Tests of Normality

	Kolmogorov-Smirnov [a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
cook_time	,179	10	,200*	,853	10	,064

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Descriptives

cook_time

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0%	2	360,0000	,0000000	,0000000	360,000000	360,000000	360,0000	360,0000
5%	2	337,5000	10,6066017	7,5000000	242,203464	432,796536	330,0000	345,0000
10%	2	281,0000	5,6568542	4,0000000	230,175181	331,824819	277,0000	285,0000
20%	2	247,5000	10,6066017	7,5000000	152,203464	342,796536	240,0000	255,0000
40%	2	242,5000	3,5355339	2,5000000	210,734488	274,265512	240,0000	245,0000
Total	10	293,7000	50,2572272	15,89273	257,748145	329,651855	240,0000	360,0000

cook_time

Duncan [a]

perlakuan	N	Subset for alpha = .05			
		1	2	3	4
40%	2	242,5000			
20%	2	247,5000			
10%	2		281,0000		
5%	2			337,5000	
0%	2				360,0000
Sig.		,526	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 2,000.

- Analisa Sensori Mie Instan Tepung Sukun (*Kruskal Wallis*)

Test Statistics(a,b)

	warna	aroma	rasa	kekenyalan	overall
Chi-Square	93,142	90,989	67,977	62,911	100,492
df	4	4	4	4	4
Asymp. Sig.	,000	,000	,000	,000	,000

a Kruskal Wallis Test
b Grouping Variable: konsentrasi

- Analisa Sensori Mie Instan Tepung Sukun (*Mann Whitney* Kontrol VS 5%)

Ranks

	konsentrasi	N	Mean Rank	Sum of Ranks
warna	kontrol	30	34,57	1037,00
	5%	30	26,43	793,00
	Total	60		
aroma	kontrol	30	38,95	1168,50
	5%	30	22,05	661,50
	Total	60		
rasa	kontrol	30	32,27	968,00
	5%	30	28,73	862,00
	Total	60		
kekenyalan	kontrol	30	36,67	1100,00
	5%	30	24,33	730,00
	Total	60		
overall	kontrol	30	34,82	1044,50
	5%	30	26,18	785,50
	Total	60		

Test Statistics [a]

	warna	aroma	rasa	kekenyalan	overall
Mann-Whitney U	328,000	196,500	397,000	265,000	320,500
Wilcoxon W	793,000	661,500	862,000	730,000	785,500
Z	-1,898	-3,986	-,815	-2,849	-2,027
Asymp. Sig. (2-tailed)	,058	,000	,415	,004	,043

a. Grouping Variable: konsentrasi

- Analisa Sensori Mie Instan Tepung Sukun (*Mann Whitney* Kontrol VS 10%)

Ranks

	konsentrasi	N	Mean Rank	Sum of Ranks
warna	kontrol	30	35,50	1065,00
	10%	30	25,50	765,00
	Total	60		
aroma	kontrol	30	40,68	1220,50
	10%	30	20,32	609,50
	Total	60		
rasa	kontrol	30	32,85	985,50
	10%	30	28,15	844,50
	Total	60		
kekenyalan	kontrol	30	36,60	1098,00
	10%	30	24,40	732,00
	Total	60		
overall	kontrol	30	36,48	1094,50
	10%	30	24,52	735,50
	Total	60		

Test Statistics(a)

	warna	aroma	rasa	kekenyalan	overall
Mann-Whitney U	300,000	144,500	379,500	267,000	270,500
Wilcoxon W	765,000	609,500	844,500	732,000	735,500
Z	-2,320	-4,750	-1,083	-2,823	-2,792
Asymp. Sig. (2-tailed)	,020	,000	,279	,005	,005

a Grouping Variable: konsentrasi

- Analisa Sensori Mie Instan Tepung Sukun (*Mann Whitney* Kontrol VS 20%)

Ranks

	konsentrasi	N	Mean Rank	Sum of Ranks
warna	kontrol	30	41,77	1253,00
	20%	30	19,23	577,00
	Total	60		
aroma	kontrol	30	44,77	1343,00
	20%	30	16,23	487,00
	Total	60		
rasa	kontrol	30	39,40	1182,00
	20%	30	21,60	648,00
	Total	60		
kekenyalan	kontrol	30	40,65	1219,50
	20%	30	20,35	610,50
	Total	60		
overall	kontrol	30	43,57	1307,00
	20%	30	17,43	523,00
	Total	60		

Test Statistics(a)

	warna	aroma	rasa	kekenyalan	overall
Mann-Whitney U	112,000	22,000	183,000	145,500	58,000
Wilcoxon W	577,000	487,000	648,000	610,500	523,000
Z	-5,239	-6,550	-4,093	-4,663	-6,064
Asymp. Sig. (2-tailed)	,000	,000	,000	,000	,000

a Grouping Variable: konsentrasi

- Analisa Sensori Mie Instan Tepung Sukun (*Mann Whitney* Kontrol VS 40%)

Ranks

	konsentrasi	N	Mean Rank	Sum of Ranks
warna	kontrol	30	45,17	1355,00
	40%	30	15,83	475,00
	Total	60		
aroma	kontrol	30	44,60	1338,00
	40%	30	16,40	492,00
	Total	60		
rasa	kontrol	30	43,48	1304,50
	40%	30	17,52	525,50
	Total	60		
kekenyalan	kontrol	30	44,08	1322,50
	40%	30	16,92	507,50
	Total	60		
overall	kontrol	30	45,13	1354,00
	40%	30	15,87	476,00
	Total	60		

Test Statistics(a)

	warna	aroma	rasa	kekenyalan	overall
Mann-Whitney U	10,000	27,000	60,500	42,500	11,000
Wilcoxon W	475,000	492,000	525,500	507,500	476,000
Z	-6,918	-6,677	-6,066	-6,267	-6,944
Asymp. Sig. (2-tailed)	,000	,000	,000	,000	,000

a Grouping Variable: konsentrasi

- Analisa Sensori Mie Instan Tepung Sukun (*Mann Whitney* 5% VS 10%)

Ranks

	konsentrasi	N	Mean Rank	Sum of Ranks
warna	5%	30	32,33	970,00
	10%	30	28,67	860,00
	Total	60		
aroma	5%	30	32,78	983,50
	10%	30	28,22	846,50
	Total	60		
rasa	5%	30	31,35	940,50
	10%	30	29,65	889,50
	Total	60		
kekenyalan	5%	30	30,43	913,00
	10%	30	30,57	917,00
	Total	60		
overall	5%	30	33,18	995,50
	10%	30	27,82	834,50
	Total	60		

Test Statistics(a)

	warna	aroma	rasa	kekenyalan	overall
Mann-Whitney U	395,000	381,500	424,500	448,000	369,500
Wilcoxon W	860,000	846,500	889,500	913,000	834,500
Z	-,857	-1,050	-,393	-,031	-1,249
Asymp. Sig. (2-tailed)	,392	,294	,695	,975	,212

a Grouping Variable: konsentrasi

- Analisa Sensori Mie Instan Tepung Sukun (*Mann Whitney* 5% VS 20%)

Ranks

	konsentrasi	N	Mean Rank	Sum of Ranks
warna	5%	30	42,00	1260,00
	20%	30	19,00	570,00
	Total	60		
aroma	5%	30	40,32	1209,50
	20%	30	20,68	620,50
	Total	60		
rasa	5%	30	40,10	1203,00
	20%	30	20,90	627,00
	Total	60		
kekenyalan	5%	30	35,88	1076,50
	20%	30	25,12	753,50
	Total	60		
overall	5%	30	42,72	1281,50
	20%	30	18,28	548,50
	Total	60		

Test Statistics(a)

	warna	aroma	rasa	kekenyalan	overall
Mann-Whitney U	105,000	155,500	162,000	288,500	83,500
Wilcoxon W	570,000	620,500	627,000	753,500	548,500
Z	-5,305	-4,582	-4,404	-2,455	-5,677
Asymp. Sig. (2-tailed)	,000	,000	,000	,014	,000

a Grouping Variable: konsentrasi

- Analisa Sensori Mie Instan Tepung Sukun (*Mann Whitney* 5% VS 40%)

Ranks

	konsentrasi	N	Mean Rank	Sum of Ranks
warna	5%	30	45,23	1357,00
	40%	30	15,77	473,00
	Total	60		
aroma	5%	30	43,85	1315,50
	40%	30	17,15	514,50
	Total	60		
rasa	5%	30	43,82	1314,50
	40%	30	17,18	515,50
	Total	60		
kekenyalan	5%	30	41,35	1240,50
	40%	30	19,65	589,50
	Total	60		
overall	5%	30	44,92	1347,50
	40%	30	16,08	482,50
	Total	60		

Test Statistics(a)

	warna	aroma	rasa	kekenyalan	overall
Mann-Whitney U	8,000	49,500	50,500	124,500	17,500
Wilcoxon W	473,000	514,500	515,500	589,500	482,500
Z	-6,920	-6,236	-6,204	-5,034	-6,816
Asymp. Sig. (2-tailed)	,000	,000	,000	,000	,000

a Grouping Variable: konsentrasi

- Analisa Sensori Mie Instan Tepung Sukun (*Mann Whitney* 10% VS 20%)

Ranks

	konsentrasi	N	Mean Rank	Sum of Ranks
warna	10%	30	40,25	1207,50
	20%	30	20,75	622,50
	Total	60		
aroma	10%	30	36,88	1106,50
	20%	30	24,12	723,50
	Total	60		
rasa	10%	30	38,08	1142,50
	20%	30	22,92	687,50
	Total	60		
kekenyalan	10%	30	36,65	1099,50
	20%	30	24,35	730,50
	Total	60		
overall	10%	30	41,88	1256,50
	20%	30	19,12	573,50
	Total	60		

Test Statistics(a)

	warna	aroma	rasa	kekenyalan	overall
Mann-Whitney U	157,500	258,500	222,500	265,500	108,500
Wilcoxon W	622,500	723,500	687,500	730,500	573,500
Z	-4,508	-2,981	-3,488	-2,814	-5,322
Asymp. Sig. (2-tailed)	,000	,003	,000	,005	,000

a Grouping Variable: konsentrasi

- Analisa Sensori Mie Instan Tepung Sukun (*Mann Whitney* 10% VS 40%)

Ranks

	konsentrasi	N	Mean Rank	Sum of Ranks
warna	10%	30	44,58	1337,50
	40%	30	16,42	492,50
	Total	60		
aroma	10%	30	42,58	1277,50
	40%	30	18,42	552,50
	Total	60		
rasa	10%	30	43,12	1293,50
	40%	30	17,88	536,50
	Total	60		
kekenyalan	10%	30	42,38	1271,50
	40%	30	18,62	558,50
	Total	60		
overall	10%	30	44,78	1343,50
	40%	30	16,22	486,50
	Total	60		

Test Statistics(a)

	warna	aroma	rasa	kekenyalan	overall
Mann-Whitney U	27,500	87,500	71,500	93,500	21,500
Wilcoxon W	492,500	552,500	536,500	558,500	486,500
Z	-6,635	-5,704	-5,878	-5,473	-6,739
Asymp. Sig. (2-tailed)	,000	,000	,000	,000	,000

a Grouping Variable: konsentrasi

- Analisa Sensori Mie Instan Tepung Sukun (*Mann Whitney* 20% VS 40%)

Ranks

	konsentrasi	N	Mean Rank	Sum of Ranks
warna	20%	30	43,02	1290,50
	40%	30	17,98	539,50
	Total	60		
aroma	20%	30	41,97	1259,00
	40%	30	19,03	571,00
	Total	60		
rasa	20%	30	40,58	1217,50
	40%	30	20,42	612,50
	Total	60		
kekenyalan	20%	30	40,18	1205,50
	40%	30	20,82	624,50
	Total	60		
overall	20%	30	43,17	1295,00
	40%	30	17,83	535,00
	Total	60		

Test Statistics(a)

	warna	aroma	rasa	kekenyalan	overall
Mann-Whitney U	74,500	106,000	147,500	159,500	70,000
Wilcoxon W	539,500	571,000	612,500	624,500	535,000
Z	-6,050	-5,474	-4,789	-4,565	-6,186
Asymp. Sig. (2-tailed)	,000	,000	,000	,000	,000

a Grouping Variable: konsentrasi